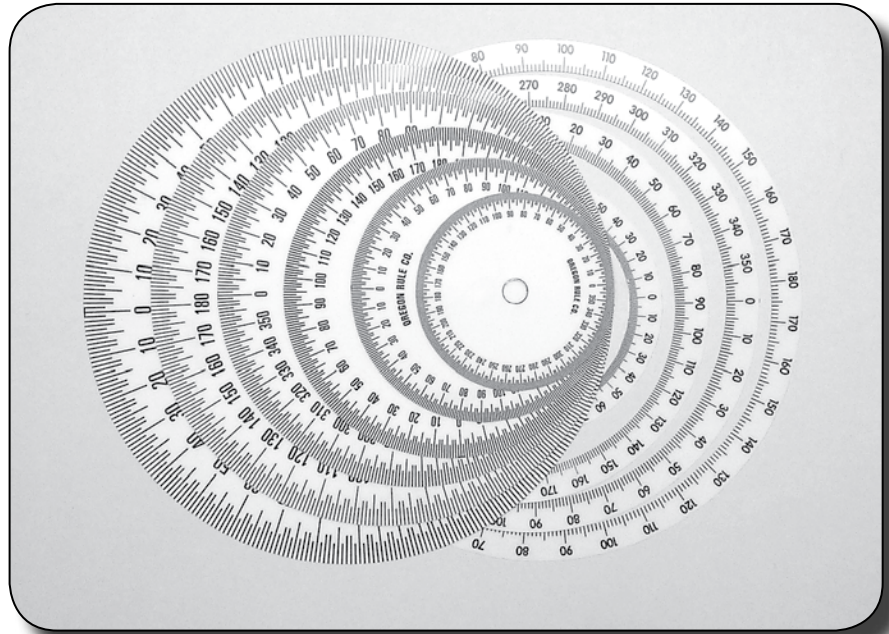


Adhesive-Backed Dials

Oregon Rule Co. makes a selection of adhesive-backed outer and inner edge Graduated Dials (GD) ready to mount on tools and equipment. Outer edge dials have a 11/32 diameter reference hole, while inner edge dials have an inside hole 1" smaller than outside diameter. Four basic styles are available: 0-360 degrees clockwise (CW), 0-360 degrees counterclockwise (CCW), 0-180-0 degrees dual-directional (DD) and 0-90-0 degrees dual-directional (DD). Graphics are black on a white background with 1 degree resolutions and come with 5mil thick Mylar topcoat for chemical and abrasion resistance. Oregon Rule Company can provide aluminum plate backing and bolt holes. Special diameter, segments, colors and/or other resolutions also available.



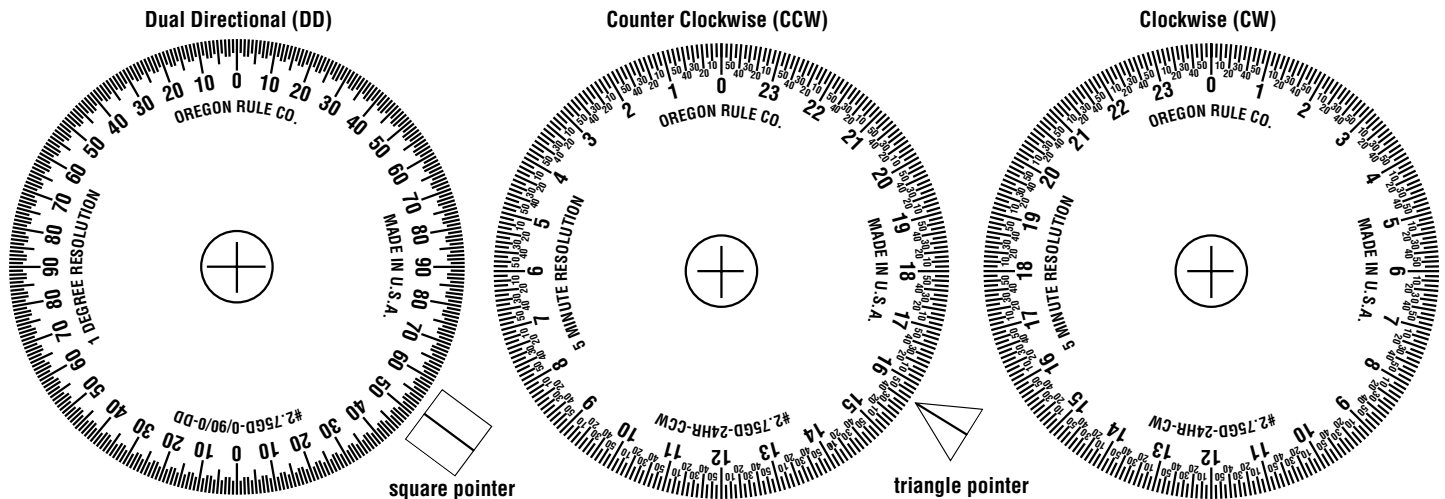
OUTER DIAMETER

3"	3GD-W360CW-5TC	3GD-W360CCW-5TC	3GD-W180DD-5TC	3GD-W090DD-5TC	\$8.45
4"	4GD-W360CW-5TC	4GD-W360CCW-5TC	4GD-W180DD-5TC	4GD-W090DD-5TC	\$9.00
5"	5GD-W360CW-5TC	5GD-W360CCW-5TC	5GD-W180DD-5TC	5GD-W090DD-5TC	\$9.55
6"	6GD-W360CW-5TC	6GD-W360CCW-5TC	6GD-W180DD-5TC	6GD-W090DD-5TC	\$10.60
7"	7GD-W360CW-5TC	7GD-W360CCW-5TC	7GD-W180DD-5TC	7GD-W090DD-5TC	\$11.15
8"	8GD-W360CW-5TC	8GD-W360CCW-5TC	8GD-W180DD-5TC	8GD-W090DD-5TC	\$11.65
9"	9GD-W360CW-5TC	9GD-W360CCW-5TC	9GD-W180DD-5TC	9GD-W090DD-5TC	\$13.80
10"	10GD-W360CW-5TC	10GD-W360CCW-5TC	10GD-W180DD-5TC	10GD-W090DD-5TC	\$16.95
14"	14GD-W360CW-5TC	14GD-W360CCW-5TC	14GD-W180DD-5TC	14GD-W090DD-5TC	\$21.20
16"	16GD-W360CW-5TC	16GD-W360CCW-5TC	16GD-W180DD-5TC	16GD-W090DD-5TC	\$31.80
24"	24GD-W360CW-5TC	24GD-W360CCW-5TC	24GD-W180DD-5TC	24GD-W090DD-5TC	\$51.95

INNER DIAMETER

3"	3x2GD-W360CW-5TC	3x2GD-W360CCW-5TC	3x2GD-W180DD-5TC	3x2GD-W090DD-5TC	\$9.00
4"	4x3GD-W360CW-5TC	4x3GD-W360CCW-5TC	4x3GD-W180DD-5TC	4x3GD-W090DD-5TC	\$9.55
5"	5x4GD-W360CW-5TC	5x4GD-W360CCW-5TC	5x4GD-W180DD-5TC	5x4GD-W090DD-5TC	\$10.10
6"	6x5GD-W360CW-5TC	6x5GD-W360CCW-5TC	6x5GD-W180DD-5TC	6x5GD-W090DD-5TC	\$11.15
7"	7x6GD-W360CW-5TC	7x6GD-W360CCW-5TC	7x6GD-W180DD-5TC	7x6GD-W090DD-5TC	\$11.65
8"	8x7GD-W360CW-5TC	8x7GD-W360CCW-5TC	8x7GD-W180DD-5TC	8x7GD-W090DD-5TC	\$12.70

Setting Circles for Stargazers



* Images shown are not to scale

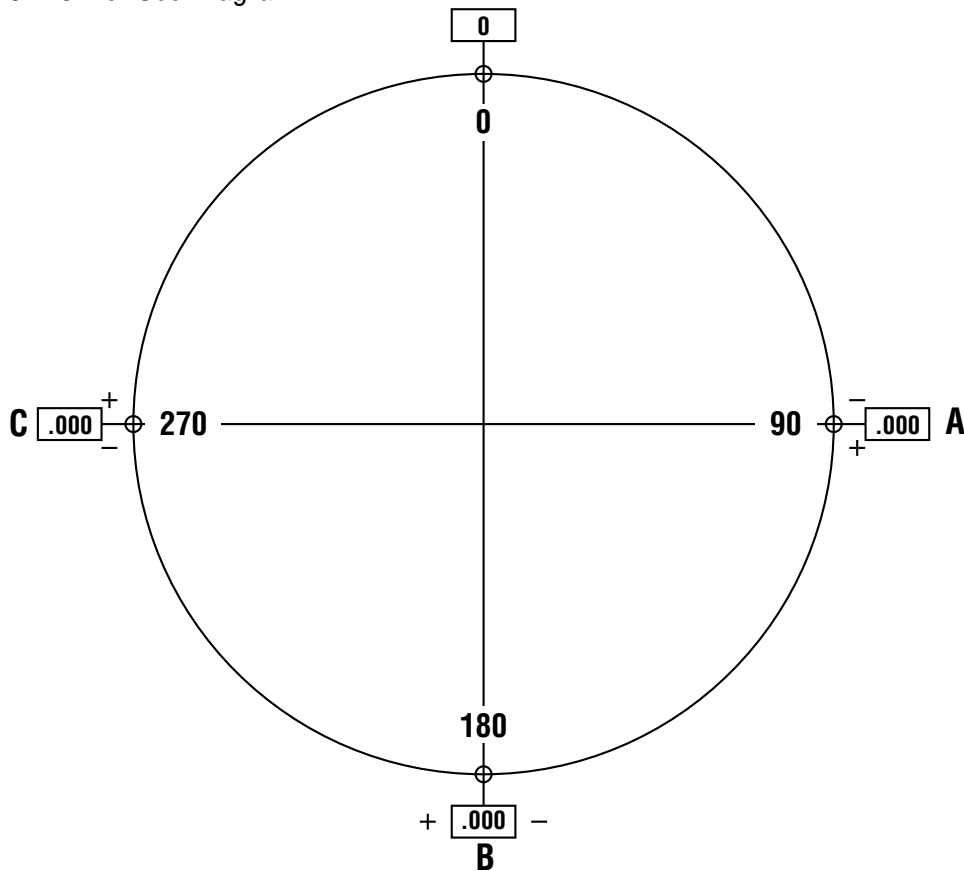
In addition to our standard setting circles we have expanded our selection to include Phosphorescent (glow-in-the-dark) adhesive-backed or Magnetic-backed and Black/White magnetic backed. All have a 1mil polyester matte finish topcoat for chemical and abrasion resistance and come with a 11/32 diameter center pilot hole. The Phosphorescent media can remain clearly visible in a totally dark environment for 1 hour after exposure to a 150 watt light bulb for 4 hours at a distance of 10 inches (25cm). Luminescence remains visible to the acclimated eye up to 8 hours. The Magnetic-backed circles, for use on ferrous surfaces, are easy to apply and offer phase adjusting to fixed pointers.

Type of Product	Diameter (inches)	White Adhesive-backed	Phosphorescent Adhesive-backed	White Magnetic-backed (M)	Phosphorescent Magnetic-backed (M)
0-90DD	2 3/4"	2.75GD-WO/90/0-DD	2.75GD-PO/90/0-DD	2.75GD-WO/90/0-DD-M	2.75GD-PO/90/0-DD-M
0-90DD	4"	4GD-WO/90/0-DD	4GD-PO/90/0-DD	4GD-WO/90/0-DD-M	4GD-PO/90/0-DD-M
0-90DD	6"	6GD-WO/90/0-DD	6GD-PO/90/0-DD	6GD-WO/90/0-DD-M	6GD-PO/90/0-DD-M
0-90DD	8"	8GD-WO/90/0-DD	8GD-PO/90/0-DD	8GD-WO/90/0-DD-M	8GD-PO/90/0-DD-M
0-180DD	6"	6GD-W180-DD	6GD-P180-DD	6GD-W180-DD-M	6GD-P180-DD-M
0-180DD	8"	8GD-W180-DD	8GD-P180-DD	8GD-W180-DD-M	8GD-P180-DD-M
0-360CW	6"	6GD-W360-CW	6GD-P360-CW	6GD-W360-CW-M	6GD-P360-CW-M
0-360CW	8"	8GD-W360-CW	8GD-P360-CW	8GD-W360-CW-M	8GD-P360-CW-M
0-360CCW	6"	6GD-W360-CCW	6GD-P360-CCW	6GD-W360-CCW-M	6GD-P360-CCW-M
0-360CCW	8"	8GD-W360-CCW	8GD-P360-CCW	8GD-W360-CCW-M	8GD-P360-CCW-M
24HR.CW (Left Ascension)	2 3/4"	2.75GD-W24HR-CW	2.75GD-P24HR-CW	2.75GD-P24HR-CW	2.75GD-P24HR-CW-M
	4"	4GD-W24HR-CW	4GD-P24HR-CW	4GD-P24HR-CW	4GD-P24HR-CW-M
	6"	6GD-W24HR-CW	6GD-P24HR-CW	6GD-P24HR-CW	6GD-P24HR-CW-M
	8"	8GD-W24HR-CW	8GD-P24HR-CW	8GD-P24HR-CW	8GD-P24HR-CW-M
24HR.CCW (Right Ascension)	2 3/4"	2.75GD-W24HR-CCW	2.75GD-P24HR-CCW	2.75GD-P24HR-CCW	2.75GD-P24HR-CCW-M
	4"	4GD-W24HR-CCW	4GD-P24HR-CCW	4GD-P24HR-CCW	4GD-P24HR-CCW-M
	6"	6GD-W24HR-CCW	6GD-P24HR-CCW	6GD-P24HR-CCW	6GD-P24HR-CCW-M
	8"	8GD-W24HR-CCW	8GD-P24HR-CCW	8GD-P24HR-CCW	8GD-P24HR-CCW-M
Diameter	2 3/4"	\$8.50	\$9.80	\$10.85	\$13.50
Price	4"	\$9.00	\$10.30	\$11.40	\$14.30
	6"	\$10.50	\$13.00	\$19.25	\$16.70
	8"	\$11.65	\$15.40	\$17.25	\$21.15
3/8 Square Pointer	→	PTR-W001	PTR-P001	PTR-W001 -M	PTR-P001-M
3/8 Triangle Pointer	→	PTR-W002	PTR-P002	PTR-W001-M	PTR-P002-M
Pointer Price	→	\$0.75	\$0.85	\$0.95	\$1.05

Graduated Dial Certification

Unlike linear rules which can be easily measured, degrees dials require special consideration. Qualifying them by degrees is dubious since the larger the diameter the larger the distance is between adjacent graduations. Additionally, the accuracy at which the center point is located generating the radius is important, but usually negligible if only the chord distance is considered.

To measure graduated dials Oregon Rule Co. uses an X-Y cross-hair matrix whose point-to-point tolerance is +/- .000 established by rule # 8594-1, as certified by a Master Vernier caliper certified to Federal Spec GGG-C-111C including National Institute of Standard and Technology (NIST) Test # 731-24146. As measured $0 \rightarrow B = A \rightarrow C$, and $0 \rightarrow A = A \rightarrow B = B \rightarrow C = C \rightarrow 0$. See Diagram.



“Zero” is established @ the 12:00 position and the pivot point at the dial center of the matrix. Quadrant deviations are measured as a + or - variation in a clockwise direction. The difference if any, at each quadrant is recorded as the “chord” difference and is also calculated using the given radius of the dial diameter converting it to degrees of arc.

The cost to have a dial certified is \$ 30.00. Each dial is identified by a unique certification number and registered in a Oregon Rule Co. Master Log. The customer will receive a letter stating the “as measured accuracy”, for each unit.